



Human Caveolin-1,Cav-1 ELISA KIT

Product Code	CSB-E09682h
Abbreviation	CAV1
Protein Biological Process 1	Immunity
Target Name	caveolin 1, caveolae protein, 22kDa
Uniprot No.	Q03135
Alias	BSCL3, CAV, CGL3, MSTP085, VIP21, caveolae protein, 22-kD caveolin 1 caveolin 1, alpha isoform caveolin 1, beta isoform cell growth-inhibiting protein 32
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Host-virus interaction
Sample Types	serum, plasma, tissue homogenates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.8 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Gene Names	CAV1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human CAV1 ELISA Kit was designed for the quantitative measurement of Human CAV1 protein in serum, plasma, tissue homogenates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.8 pg/mL .
Target Details	The scaffolding protein encoded by this gene is the main component of the caveolae plasma membranes found in most cell types. The protein links integrin subunits to the tyrosine kinase FYN, an initiating step in coupling integrins to the Ras-ERK pathway and promoting cell cycle progression. The gene is a tumor suppressor gene candidate and a negative regulator of the Ras-p42/44 MAP kinase cascade. CAV1 and CAV2 are located next to each other on



chromosome 7 and express colocalizing proteins that form a stable hetero-oligomeric complex. By using alternative initiation codons in the same reading frame, two isoforms (alpha and beta) are encoded by a single transcript from this gene.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human Cav-1 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	93
	Range %	88-98
1:2	Average %	97
	Range %	92-103
1:4	Average %	89
	Range %	85-96
1:8	Average %	93
	Range %	87-96

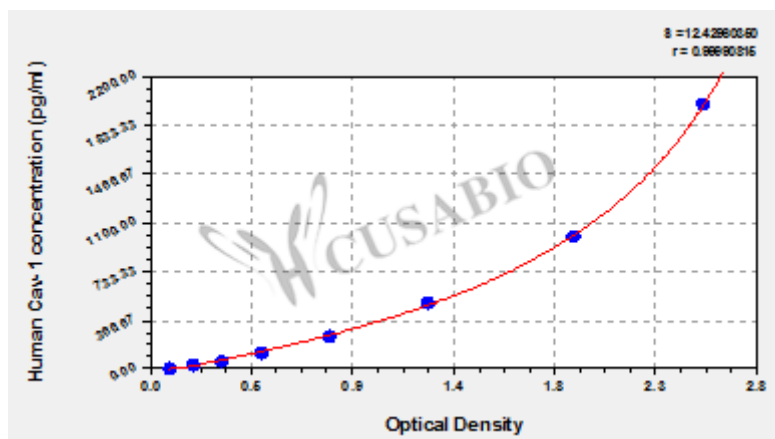
Recovery

The recovery of human Cav-1 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	102	95-107
EDTA plasma (n=4)	95	89-103

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
2000	2.501	2.552	2.527	2.424
1000	1.863	2.002	1.933	1.830
500	1.254	1.289	1.272	1.169
250	0.821	0.833	0.827	0.724
125	0.498	0.535	0.517	0.414
62.5	0.328	0.346	0.337	0.234
31.25	0.206	0.201	0.204	0.101
0	0.104	0.101	0.103	?

Msds

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